## SEQUENCE LISTING



<110> KODA, TAKAYUKI
SATO, KAZUHIRO

<120> ORGANIC NITROGEN-CONTAINING COMPOSITION AND FERTILIZER COMPRISING THE SAME

<130> 219843US0

<140> 10/077,745

<141> 2002-02-20

<150> JF 2001-044137

<151> 2001-02-20

<160> 8

<170> PatentIn version 3.1

<210> 1

<211> 935

<212> PET

<213> Enterobacter agglomerans

<400> 1

Met Gln Asn Ser Ala Met Lys Pro Trp Leu Asp Ser Ser Trp Leu Ala 1 5 10 15

Gly Ala Asn Gln Ser Tyr Ile Glu Gln Leu Tyr Glu Asp Phe Leu Thr Asp Pro Asp Ser Val Asp Ala Val Trp Arg Ser Met Phe Gln Gln Leu Pro Gly Thr Gly Val Lys Pro Glu Gln Phe His Ser Ala Thr Arg Glu Tyr Phe Arg Arg Leu Ala Lys Asp Ala Ser Arg Tyr Thr Ser Ser Val Thr Asp Pro Ala Thr Asn Ser Lys Gln Val Lys Val Leu Gln Leu Ile Asn Ala Phe Arg Phe Arg Gly His Gln Glu Ala Asn Leu Asp Pro Leu 人类系 Gly Leu Trp Lys Gln Asp Arg Val Ala Asp Leu Asp Pro Ala Phe His Asp Leu Thr Asp Ala Asp Phe Gln Glu Ser Phe Asn Val Gly Ser Phe Ala Ile Gly Lys Glu Thr Met Lys Leu Ala Asp Leu Phe Asp Ala Leu Lys Gln Thr Tyr Cys Gly Ser Ile Gly Ala Glu Tyr Met His Ile Asn Asn Thr Glu Glu Lys Arg Trp Ile Gln Gln Arg Ile Glu Ser Gly Ala Ser Gln Thr Ser Phe Ser Gly Glu Glu Lys Lys Gly Phe Leu Lys Glu Leu Thr Ala Ala Glu Gly Leu Glu Lys Tyr Leu Gly Ala Lys Phe Pro 

Gly 225	Ala	Lys	Arg	Phe	Ser 230	Leu	Glu	Gly	Gly	Asp 235	Ala	Leu	Val	Pro	Met 240
Leu	Arg	Glu	Met	Ile 245	Arg	His	Ala	Gly	Lys 250	Ser	Gly	Thr	Arg	Glu 255	Val
Val	Leu	Gly	Met 260	Ala	His	Arg	Gly	Arg 265	Leu	Asn	Val	Leu	Ile 270	Asr.	Val
Leu	Gly	Lys 275	Lys	Pro	Gln	Asp	Leu 280	Phe	Asp	Glu	Phe	Ser 285	Gly	Lys	His
Lys	Glu 290	His	Leu	Gly	Thr	Gly 295	Asp	Val	Lys	Tyr	His 300	Met	Gly	Phe	Ser
Ser 305	Asp	Ile	Glu	Thr	Glu 310	Gly	Gly	Leu	Val	His 315	Leu	Ala	Leu	Ala	Phe 320
Asn	Pro	Ser	His	Leu 325	Glu	Ile	Val	Ser	Pro 330	Val	Val	Met	Gly	Ser 335	Val
Arg	Ala	Arg	Leu 340	Asp	Arg	Leu	Ala	Glu 345	Pro	Val	Ser	Asn	Lys 350	Val	Leu
Pro	Ile	Thr 355	Ile	His	Gly	Asp	Ala 360	Ala	Val	Ile	Gly	Gln 365	Gly	Val	Val
Gln	Glu 370	Thr	Leu	Asn	Met	Ser 375	Gln	Ala	Arg	Gly	Tyr 380	Glu	Val	Gly	Gly
Thr 385	Val	Arg	Ile	Val	Ile 390	Asn	Asn	Gln	Val	Gly 395	Phe	Thr	Thr	Ser	Asn 400
Pro	Lys	Asp	Ala	Arg 405	Ser	Thr	Pro	Tyr	Cys 410	Thr	Asp	Ile	Gly	Lys 415	Met
Val	Leu	Ala	Pro 420	Ile	Phe	His	Val	Asn 425	Ala	Asp	Asp	Pro	Glu 430	Ala	Val

Ala Phe Val Thr Arg Leu Ala Leu Asp Tyr Arg Asn Thr Phe Lys Arg Asp Val Phe Ile Asp Leu Val Cys Tyr Arg Arg His Gly His Asn Glu Ala Asp Glu Pro Ser Ala Thr Gln Pro Leu Met Tyr Gln Lys Ile Lys Lys His Pro Thr Pro Arg Lys Ile Tyr Ala Asp Arg Leu Glu Gly Glu Gly Val Ala Ser Gln Glu Asp Ala Thr Glu Met Val Asn Leu Tyr Arg Asp Ala Leu Asp Ala Gly Glu Cys Val Val Pro Glu Trp Arg Pro Met Ser Leu His Ser Phe Thr Trp Ser Pro Tyr Leu Asn His Glu Trp Asp Glu Pro Tyr Pro Ala Gln Val Asp Met Lys Arg Leu Lys Glu Leu Ala Leu Arg Ile Ser Gln Val Pro Glu Gln Ile Glu Val Gln Ser Arg Val Ala Lys Ile Tyr Asn Asp Arg Lys Leu Met Ala Glu Gly Glu Lys Ala Phe Asp Trp Gly Gly Ala Glu Asn Leu Ala Tyr Ala Thr Leu Val Asp Glu Gly Ile Pro Val Arg Leu Ser Gly Glu Asp Ser Gly Arg Gly Thr Phe Phe His Arq His Ala Val Val His Asn Gln Ala Asn Gly Ser Thr 

Tyr	Thr	Pro	Leu	His 645	His	Ile	His	Asn	Ser 650	Gln	Gly	Glu	Phe	Lys 655	Val
Trp	Asp	Ser	Val 660	Leu	Ser	Glu	Glu	Ala 665	Val	Leu	Ala	Phe	Glu 670	Tyr	Gly
Tyr	Ala	Thr 675	Ala	Glu	Pro	Arg	Val 680	Leu	Thr	Ile	Trp	Glu 685	Ala	Gln	Phe
Gly	Asp 690	Phe	Ala	Asn	Gly	Ala 695	Gln	Val	Val	Ile	Asp 700	Gln	Phe	Ile	Ser
Ser 705	Gly	Glu	Gln	Lys	Trp 710	Gly	Arg	Met	Cys	Gly 715	Leu	Val	Met	Leu	Leu 720
Pro	His	Gly	Tyr	Glu 725	Gly	Gln	Gly	Pro	Glu 730	His	Ser	Ser	Ala	Arg 735	Leu
Glu	Arg	Tyr	Leu 740	Gln	Leu	Cys	Ala	Glu 745	Gln	Asn	Met	Gln	Val 750	Cys	Val
Pro	Ser	Thr 755	Pro	Ala	Gln	Val	Tyr 760	His	Met	Leu	Arg	Arg 765	Gln	Ala	Leu
Arg	Gly 770	Met	Arg	Arg	Pro	Leu 775	Val	Val	Met	Ser	Pro 780	Lys	Ser	Leu	Leu
Arg 785	His	Pro	Leu	Ala	Ile 790	Ser	Ser	Leu	Asp	Glu 795	Leu	Ala	Asn	Gly	Ser 800
Phe	Gln	Pro	Ala	Ile 805	Gly	Glu	Ile	Asp	Asp 810	Leu	Asp	Pro	Gln	Gly 815	Val
Lys	Arg	Val	Val 820	Leu	Cys	Ser	Gly	Lys 825	Val	Tyr	Tyr	Asp	Leu 830	Leu	Glu
Gln	Aty	Arg 835	Lys	Asp	Glu	Lys	Thr 840	Asp	Val	Ala	Ile	Val 845	Arg	Ile	Glu

Gln Leu Tyr Pro Phe Pro His Gln Ala Val Gln Glu Ala Leu Lys Ala 850 855 860

Tyr Ser His Val Glr. Asp Phe Val Trp Cys Gln Glu Glu Pro Leu Asn 865 870 875 880

Gln Gly Ala Trp Tyr Cys Ser Gln His His Phe Arg Asp Val Val Pro 885 890 895

Phe Gly Ala Thr Leu Arg Tyr Ala Gly Arg Pro Ala Ser Ala Ser Pro 900 905 910

Ala Val Gly Tyr Met Ser Val His Gln Gln Gln Gln Asp Leu Val 915 920 925

Asn Asp Ala Leu Asr. Val Asn 930 935

(65)

<210> 2

<211> 407

<212> PRT

<213> Enterobacter agglomerans

<400> 2

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Asp Ala Thr Val Ala Thr Trp His Lys Lys Pro Gly Asp Ala Val Ser 20 25 30

Arg Asp Glu Val Ile Val Glu Ile Glu Thr Asp Lys Val Val Leu Glu 35 40 45

Val Pro Ala Ser Ala Asp Gly Val Leu Glu Ala Val Leu Glu Asp Glu 50 55 60

Gly Ala Thr Val Thr Ser Arg Gln Ile Leu Gly Arg Leu Lys Glu Gly Asn Ser Ala Gly Lys Glu Ser Ser Ala Lys Ala Glu Ser Asn Asp Thr Thr Pro Ala Gln Arg Gln Thr Ala Ser Leu Glu Glu Glu Ser Ser Asp Ala Leu Ser Pro Ala Ile Arg Arg Leu Ile Ala Glu His Asn Leu Asp Ala Ala Gln Ile Lys Gly Thr Gly Val Gly Gly Arg Leu Thr Arg Glu Asp Val Glu Lys His Leu Ala Asn Lys Pro Gln Ala Glu Lys Ala Ala Ala Pro Ala Ala Gly Ala Ala Thr Ala Gln Gln Pro Val Ala Asn Arg Ser Glu Lys Arg Val Pro Met Thr Arg Leu Arg Lys Arg Val Ala Glu Arg Leu Leu Glu Ala Lys Asn Ser Thr Ala Met Leu Thr Thr Phe Asn Glu Ile Asn Met Lys Pro Ile Met Asp Leu Arg Lys Gln Tyr Gly Asp Ala Phe Glu Lys Arg His Gly Val Arg Leu Gly Phe Met Ser Phe Tyr Ile Lys Ala Val Val Glu Ala Leu Lys Arg Tyr Pro Glu Val Asn Ala Ser Ile Asp Gly Glu Asp Val Val Tyr His Asn Tyr Phe Asp Val Ser 

Ile Ala Val Ser Thr Pro Arg Gly Leu Val Thr Pro Val Leu Arg Asp 275 280 285

Val Asp Ala Leu Ser Met Ala Asp Ile Glu Lys Lys Ile Lys Glu Leu 290 295 300

Ala Val Lys Gly Arg Asp Gly Lys Leu Thr Val Asp Asp Leu Thr Gly 305 310 315 320

Gly Asn Phe Thr Ile Thr Asn Gly Gly Val Phe Gly Ser Leu Met Ser 325 330 335

Thr Pro Ile Ile Asn Pro Pro Gln Ser Ala Ile Leu Gly Met His Ala 340 345 350

Ile Lys Asp Arg Pro Met Ala Val Asn Gly Gln Val Val Ile Leu Pro 355 360 365

Met Met Tyr Leu Ala Leu Ser Tyr Asp His Arg Leu Ile Asp Gly Arg 370 375 380

Glu Ser Val Gly Tyr Leu Val Ala Val Lys Glu Met Leu Glu Asp Pro 385 390 395 400

Ala Arg Leu Leu Leu Asp Val 405

<210> 3

<211> 41

<212> PRT

<213> Enterobacter agglomerans

<400> 3

Met Asn Leu His Glu Tyr Gln Ala Lys Gln Leu Phe Ala Arg Tyr Gly 1  $\phantom{0}$  5  $\phantom{0}$  10  $\phantom{0}$  15

Met Pro Ala Pro Thr Gly Tyr Ala Cys Thr Thr Pro Arg Glu Ala Glu 20 25 30

Glu Ala Ala Ser Lys Ile Gly Ala Gly 35 40

<210> 4

<211> 39

<212> PRT

<213> Enterobacter agglomerans

<400> 4

Ala Phe Ser Val Phe Arg Cys His Ser Ile Met Asn Cys Val Ser Val 1 5 10 15  $\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath{\triangle}}\mbox{\ensuremath$ 

Cys Pro Lys Gly Leu Asn Pro Thr Arg Ala Ile Gly His Ile Lys Ser 20 25 30

Met Leu Leu Gln Arg Ser Ala 35

<210> 5

<211> 933

<212> PRT

<213> Escherichia coli

<400> 5

Met Gln Asn Ser Ala Leu Lys Ala Trp Leu Asp Ser Ser Tyr Leu Ser 1 5 10 15

Gly Ala Asn Gln Ser Trp Ile Glu Gln Leu Tyr Glu Asp Phe Leu Thr 20 25 30

Asp Pro Asp Ser Val Asp Ala Asn Trp Arg Ser Thr Phe Gln Gln Leu Pro Gly Thr Gly Val Lys Pro Asp Gln Phe His Ser Gln Thr Arg Glu Tyr Phe Arg Arg Leu Ala Lys Asp Ala Ser Arg Tyr Ser Ser Thr Ile Ser Asp Pro Asp Thr Asn Val Lys Gln Val Lys Val Leu Gln Leu Ile Asn Ala Tyr Arg Phe Arg Gly His Gln His Ala Asn Leu Asp Pro Leu Gly Leu Trp Gln Gln Asp Lys Val Ala Asp Leu Asp Pro Ser Phe His Asp Leu Thr Glu Ala Asp Phe Gln Glu Thr Phe Asn Val Gly Ser Phe Ala Ser Gly Lys Glu Thr Met Lys Leu Gly Glu Leu Leu Glu Ala Leu Lys Gln Thr Tyr Cys Gly Pro Ile Gly Ala Glu Tyr Met His Ile Thr Ser Thr Glu Glu Lys Arg Trp Ile Gln Gln Arg Ile Glu Ser Gly Arg Ala Thr Phe Asn Ser Glu Glu Lys Lys Arg Phe Leu Ser Glu Leu Thr Ala Ala Glu Gly Leu Glu Arg Tyr Leu Gly Ala Lys Phe Pro Gly Ala Lys Arg Phe Ser Leu Glu Gly Gly Asp Ala Leu Ile Pro Met Leu Lys 

Glu Met Ile Arg His Ala Gly Asn Ser Gly Thr Arg Glu Val Val Leu Gly Met Ala His Arg Gly Arg Leu Asn Val Leu Val Asn Val Leu Gly Lys Lys Pro Gln Asp Leu Phe Asp Glu Phe Ala Gly Lys His Lys Glu His Leu Gly Thr Gly Asp Val Lys Tyr His Met Gly Phe Ser Ser Asp Phe Gln Thr Asp Gly Gly Leu Val His Leu Ala Leu Ala Phe Asn Pro (45 Ser His Leu Glu Ile Val Ser Pro Val Val Ile Gly Ser Val Arg Ala Arg Leu Asp Arg Leu Asp Glu Pro Ser Ser Asn Lys Val Leu Pro Ile Thr Ile His Gly Asp Ala Ala Val Thr Gly Gln Gly Val Val Gln Glu Thr Leu Asn Met Ser Lys Ala Arg Gly Tyr Glu Val Gly Gly Thr Val Arg Ile Val Ile Asn Asn Gln Val Gly Phe Thr Thr Ser Asn Pro Leu Asp Ala Arg Ser Thr Pro Tyr Cys Thr Asp Ile Gly Lys Met Val Gln Ala Pro Ile Phe His Val Asn Ala Asp Asp Pro Glu Ala Val Ala Phe Val Thr Arg Leu Ala Leu Asp Phe Arg Asn Thr Phe Lys Arg Asp Val 

Phe Ile Asp Leu Val Ser Tyr Arg Arg His Gly His Asn Glu Ala Asp Glu Pro Ser Ala Thr Gln Pro Leu Met Tyr Gln Lys Ile Lys Lys His Pro Thr Pro Arg Lys Ile Tyr Ala Asp Lys Leu Glu Gln Glu Lys Val Ala Thr Leu Glu Asp Ala Thr Glu Met Val Asn Leu Tyr Arg Asp Ala Leu Asp Ala Gly Asp Cys Val Val Ala Glu Trp Arg Pro Met Asn Met His Ser Phe Thr Trp Ser Pro Tyr Leu Asn His Glu Trp Asp Glu Glu (13 Tyr Pro Asn Lys Val Glu Met Lys Arg Leu Gln Glu Leu Ala Lys Arg Ile Ser Thr Val Pro Glu Ala Val Glu Met Gln Ser Arg Val Ala Lys Ile Tyr Gly Asp Arg Gln Ala Met Ala Ala Gly Glu Lys Leu Phe Asp Trp Gly Gly Ala Glu Asn Leu Ala Tyr Ala Thr Leu Val Asp Glu Gly Ile Pro Val Arg Leu Ser Gly Glu Asp Ser Gly Arg Gly Thr Phe Phe His Arg His Ala Val Ile His Asn Gln Ser Asn Gly Ser Thr Tyr Thr Pro Leu Gln His Ile His Asn Gly Gln Gly Ala Phe Arg Val Trp Asp 

Ser Val Leu Ser Glu Glu Ala Val Leu Ala Phe Glu Tyr Gly Tyr Ala Thr Ala Glu Pro Arg Thr Leu Thr Ile Trp Glu Ala Gln Phe Gly Asp Phe Ala Asn Gly Ala Gln Val Val Ile Asp Gln Phe Ile Ser Ser Gly Glu Gln Lys Trp Gly Arg Met Cys Gly Leu Val Met Leu Leu Pro His Gly Tyr Glu Gly Gln Gly Pro Glu His Ser Ser Ala Arg Leu Glu Arg Tyr Leu Gln Leu Cys Ala Glu Gln Asn Met Gln Val Cys Val Pro Ser Thr Pro Ala Gln Val Tyr His Met Leu Arg Arg Gln Ala Leu Arg Gly Met Arg Arg Pro Leu Val Val Met Ser Pro Lys Ser Leu Leu Arg His Pro Leu Ala Val Ser Ser Leu Glu Glu Leu Ala Asn Gly Thr Phe Leu Pro Ala Ile Gly Glu Ile Asp Glu Leu Asp Pro Lys Gly Val Lys Arg Val Val Met Cys Ser Gly Lys Val Tyr Tyr Asp Leu Leu Glu Gln Arg Arg Lys Asn Asn Gln His Asp Val Ala Ile Val Arg Ile Glu Gln Leu Tyr Pro Phe Pro His Lys Ala Met Gln Glu Val Leu Gln Gln Phe Ala 

His Val Lys Asp Phe Val Trp Cys Gln Glu Glu Pro Leu Asn Gln Gly 865 870 870 875 880

Ala Trp Tyr Cys Ser Gln His His Phe Arg Glu Val Ile Pro Phe Gly 885 890 895

Ala Ser Leu Arg Tyr Ala Gly Arg Pro Ala Ser Ala Ser Pro Ala Val 900 905 910

Gly Tyr Met Ser Val His Gln Lys Gln Gln Gln Asp Leu Val Asn Asp 915 920 925

Ala Leu Asn Val Glu 930

<...10> 6

<211> 405

<212> PRT

<213> Escherichia coli

<400> 6

Met Ser Ser Val Asp Ile Leu Val Pro Asp Leu Pro Glu Ser Val Ala 1 5 10 15

Asp Ala Thr Val Ala Thr Trp His Lys Lys Pro Gly Asp Ala Val Val 20 25 30

Arg Asp Glu Val Leu Val Glu Ile Glu Thr Asp Lys Val Val Leu Glu 35 40 45

Val Pro Ala Ser Ala Asp Gly Ile Leu Asp Ala Val Leu Glu Asp Glu 50 55 60

Gly Thr Thr Val Thr Ser Arg Gln Ile Leu Gly Arg Leu Arg Glu Gly 65 70 75 80

Asn Ser Ala Gly Lys Glu Thr Ser Ala Lys Ser Glu Glu Lys Ala Ser Thr Pro Ala Gln Arg Gln Gln Ala Ser Leu Glu Glu Gln Asn Asn Asp Ala Leu Ser Pro Ala Ile Arg Arg Leu Leu Ala Glu His Asn Leu Asp Ala Ser Ala Ile Lys Gly Thr Gly Val Gly Gly Arg Leu Thr Arg Glu Asp Val Glu Lys His Leu Ala Lys Ala Pro Ala Lys Glu Ser Ala Pro Ala Ala Ala Pro Ala Ala Gln Pro Ala Leu Ala Ala Arg Ser Glu C, 5 Lys Arg Val Pro Met Thr Arg Leu Arg Lys Arg Val Ala Glu Arg Leu Leu Glu Ala Lys Asn Ser Thr Ala Met Leu Thr Thr Phe Asn Glu Val Asn Met Lys Pro Ile Met Asp Leu Arg Lys Gln Tyr Gly Glu Ala Phe Glu Lys Arg His Gly Ile Arg Leu Gly Phe Met Ser Phe Tyr Val Lys Ala Val Val Glu Ala Leu Lys Arg Tyr Pro Glu Val Asn Ala Ser Ile Asp Gly Asp Asp Val Val Tyr His Asn Tyr Phe Asp Val Ser Met Ala Val Ser Thr Prc Arg Gly Leu Val Thr Prc Val Leu Arg Asp Val Asp 

Thr Leu Gly Met Ala Asp Ile Glu Lys Lys Ile Lys Glu Leu Ala Val 290 295 300

Lys Gly Arg Asp Gly Lys Leu Thr Val Glu Asp Leu Thr Gly Gly Asn 305 310 315 320

Phe Thr Ile Thr Asn Gly Gly Val Phe Gly Ser Leu Met Ser Thr Pro 325 330 335

Asp Arg Pro Met Ala Val Asn Gly Gln Val Glu Ile Leu Pro Met Met 355 360 365

Tyr Leu Ala Leu Ser Tyr Asp His Arg Leu Ile Asp Gly Arg Glu Ser 370 380

Val Gly Phe Leu Val Thr Ile Lys Glu Leu Leu Glu Asp Pro Thr Arg 385 390 395 400

Leu Leu Leu Asp Val 405

<210> 7

135

<211> 60

<212> PRT

<213> Escherichia coli

<400> 7

Met Asn Leu His Glu Tyr Gln Ala Lys Gln Leu Phe Ala Arg Tyr Gly 1 5 10

Leu Pro Ala Pro Val Gly Tyr Ala Cys Thr Thr Pro Arg Glu Ala Glu 20 25 30

Glu Ala Ala Ser Lys Ile Gly Ala Gly Pro Trp Val Val Lys Cys Gln 35 40 45

Val His Ala Gly Gly Arg Gly Lys Ala Gly Gly Val 50 55 60

<210> 8

<211> 58

<212> PRT

<213> Escherichia coli

<400> 8

Phe Leu Ile Asp Ser Arg Asp Thr Glu Thr Asp Ser Arg Leu Asp Gly 1 5 10 15

Leu Ser Asp Ala Phe Ser Val Phe Arg Cys His Ser Ile Met Asn Cys 20 25 30

Val Ser Val Cys Pro Lys Gly Leu Asn Pro Thr Arg Ala Ile Gly His 35 40 45

Ile Lys Ser Met Leu Leu Gln Arg Asn Ala 50 55